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Date: 10/28/2002
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Parent Data

09545334

Claims Priority from Provisional Application 60129844**Child Data**

No Child Data

Appln Info	Contents	Petition Info	Atty/Agent Info	Continuity Data	Foreign Data	Invento
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Search Another: Application# or Patent# PCT / / or PG PUBS # Attorney Docket #

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? e au=habben jeffrey

Ref	Items	Index-term
E1	1	AU=HABBEN JEFF
E2	1	AU=HABBEN JEFFEY E
E3	0	*AU=HABBEN JEFFREY
E4	18	AU=HABBEN JEFFREY E
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E11	1	AU=HABBEN. J. E
E12	4	AU=HABBEN-JANSEN M

Inventor
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1	AU=HABBEN JEFF
1	AU=HABBEN JEFFEY E
0	AU=HABBEN JEFFREY
18	AU=HABBEN JEFFREY E

S6 20 E1-E4

? s s6 and (cytokinin or ipt)

20	S6
26810	CYTOKININ
2348	IPT

S7 1 S6 AND (CYTOKININ OR IPT)

? t s7/3,ab/all

>>>No matching display code(s) found in file(s): 65, 235, 306

7/3,AB/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
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13094984 BIOSIS NO.: 200100302133

A maize **cytokinin** gene encoding an O-glucosyltransferase specific to cis-zeatin.

AUTHOR: Martin Ruth C; Mok Machteld C; **Habben Jeffrey E**; Mok David W
S(a

AUTHOR ADDRESS: (a)Department of Horticulture, Oregon State University,
Agriculture and Life Sciences 4017, Corvallis, OR, 97331-7304:
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JOURNAL: Proceedings of the National Academy of Sciences of the United
States of America 98 (10):p5922-5926 May 8, 2001

MEDIUM: print

ISSN: 0027-8424

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ABSTRACT: Zeatin is a naturally occurring **cytokinin**. Biosynthesis and metabolism studies of zeatin have been directed mostly at the trans isomer, although cis-zeatin and its riboside occur as major components in some plant species. It is not known whether parallel regulatory pathways exist for the two isomers. Based on the sequence of the gene ZOG1 encoding a trans-zeatin O-glucosyl-transferase from Phaseolus (EC 2.4.1.203), a cis-zeatin-specific O-glucosyltransferase was isolated from maize. This gene, cisZOG1, contains an ORF of 1,401 nucleotides encoding a protein of 51.1 kDa with 41% identity to the Phaseolus ZOG1 protein. Unexpectedly, the maize enzyme recognizes as substrates cis-zeatin and

UDP-glucose but not cis-ribosylzeatin, trans-zeatin, or trans-ribosylzeatin. This finding indicates the existence of cis-specific regulatory elements in plants and suggests that cis-zeatin and derivatives may be more important in **cytokinin** homeostasis than currently recognized.

2001

? e au=zinselmeier christopher

Ref	Items	Index-term
E1	14	AU=ZINSELMEIER C
E2	2	AU=ZINSELMEIER CHRIS
E3	1	*AU=ZINSELMEIER CHRISTOPHER
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E10	3	AU=ZINSELMAYER BERND H
E11	3	AU=ZINSELMAYER BH
E12	1	AU=ZINSELMAYER, B. H.

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S8 39 E1-E9

? s s8 and (cytokinin or ipt)

39	S8
26810	CYTOKININ
2348	IPT

S9 1 S8 AND (CYTOKININ OR IPT)

? t s9/3,ab/all

>>>No matching display code(s) found in file(s): 65, 235, 306

9/3,AB/1 (Item 1 from file: 357)

DIALOG(R)File 357:Derwent Biotech Res.

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0262720 DBR Accession No.: 2001-02296 PATENT

Novel recombinant DNA construct useful for producing transgenic plants

having enhanced levels of **cytokinin** expression, improved stress

tolerance and yield stability - vector-mediated

tRNA-isopentenyltransferase gene transfer, expression in maize

transgenic plant, DNA probe, enzyme-inhibitor and antibody for improved

stress tolerance and yield stability

AUTHOR: Habben J E; **Zinselmeier C**; Tomes D

CORPORATE SOURCE: Des Moines, IA, USA.

PATENT ASSIGNEE: Pioneer-Hi-Bred-Int. 2000

PATENT NUMBER: WO 200063401 PATENT DATE: 20001026 WPI ACCESSION NO.:

2000-672743 (2065)

PRIORITY APPLIC. NO.: US 129844 APPLIC. DATE: 19990416

NATIONAL APPLIC. NO.: WO 2000US9943 APPLIC. DATE: 20000413

LANGUAGE: English

ABSTRACT: An isolated recombinant DNA (I), containing a genetic construct that has a promoter directing temporal and/or spatial gene expression in plant seed operatively linked to a **cytokinin**-modulating gene (e.g. tRNA-isopentenyltransferase, EC-2.5.1.8), is claimed. Also claimed are: host plant cells (e.g. maize (*Zea mays*)) having stably introduced (I); and a fertile transgenic plant containing (I). (I) is useful for producing fertile, transgenic plants capable of the regulated expression of a **cytokinin**-modulating gene in developing seeds by introducing (I) into plant host cells, by electroporation, polyethylene glycol-poration, particle bombardment, silicon fiber delivery, microinjection or *Agrobacterium* sp.-mediated transformation. (I) is also useful for improving stress tolerance and yield stability in plants. The preferential expression of (I) occurs about 14-25 or 4-21, preferably 8-12 days, after pollination. Also disclosed are: a DNA (II) encoding **cytokinin** metabolic enzymes; protein (III) with the enzyme activity; preparation of (III); inhibitor of (III); an antibody; a DNA probe; a vector containing (II); screening for enzyme-inhibitors. (75pp)

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Ref	Items	Index-term
E1	34	AU=TOMES DT
E2	1	AU=TOMES DW
E3	2	*AU=TOMES DWIGHT
E4	7	AU=TOMES DWIGHT T
E5	5	AU=TOMES E K
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1	AU=TOMES DW
2	AU=TOMES DWIGHT
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S10 44 E1-E4

? s s10 and (cytokinin or ipt)

44	S10
26810	CYTOKININ
2348	IPT

S11 0 S10 AND (CYTOKININ OR IPT)